

**National Functional Guidelines Report #03**

**Lab** MITKEM(Mitkem Laboratories) **SDG** MF2B65 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183662 **SOW** ISM01.3

**Data Review Reports**

Blanks

| Blanks | ICP_AES  |
|--------|--|
| ND03   | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs. |
|        | PBW38  |
|        | Sodium PBW38   |
|        | Calcium PBW38  |
|        | Potassium PBW38  |
| Blanks | ICP_AES  |
| ND04   | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs. |
|        | PBW38, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74L, MF2B65  |
|        | Sodium PBW38   |
|        | Calcium PBW38  |
|        | Potassium PBW38  |
|        | Manganese MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B65  |
| Blanks | ICP_AES  |
| ND05   | The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.   |
|        | MF2B65, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74L, MF2B77, MF2B86, LCS38  |
|        | Sodium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86 , LCS38   |
|        | Calcium MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86 , LCS38 , MF2B65  |
|        | Potassium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , LCS38  |
|        | Magnesium MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , LCS38 , MF2B65  |
| Blanks | ICP_AES  |
| ND06   | The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.   |
|        | MF2B65, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74L, MF2B77, MF2B86, LCS38, MF2B74S   |
|        | Sodium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86 , LCS38   |
|        | Calcium MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86 , LCS38 , MF2B65  |
|        | Potassium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , LCS38  |
|        | Magnesium MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , LCS38 , MF2B65  |

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Blanks

| Blanks | ICP_AES  |
|--------|--|
|        | Manganese MF2B74L , MF2B74S , LCS38  |
| Blanks | ICP_AES  |
| NE05   | The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
|        | MF2B65, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74L, MF2B77, MF2B86, LCS38  |
|        | Calcium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86 , LCS38  |
|        | Potassium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86 , LCS38  |

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**Data Review Reports**

Blanks

| Blanks | ICP_MS   |
|--------|--|
| ND03   | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs. |
|        | MF2B71, PBW37, MF2B68, MF2B74D, MF2B74S, MF2B65, MF2B74, MF2B77, MF2B86  |
|        | Vanadium MF2B71 , PBW37  |
|        | Arsenic MF2B68 , MF2B74D , MF2B74S   |
|        | Chromium MF2B74S , PBW37   |
|        | Cobalt PBW37   |
|        | Barium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B77 , MF2B86 , PBW37   |
|        | Beryllium MF2B74S , PBW37  |
|        | Antimony MF2B74S , PBW37   |
|        | Thallium MF2B74S , PBW37   |
|        | Cadmium MF2B74S  |
|        | Lead MF2B74S , PBW37   |
| Blanks | ICP_MS   |
| ND04   | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs. |
|        | MF2B71, PBW37, MF2B74S, MF2B65, MF2B68, MF2B74, MF2B74D, MF2B77, MF2B86  |
|        | Vanadium MF2B71 , PBW37  |
|        | Chromium MF2B74S , PBW37   |
|        | Cobalt PBW37   |
|        | Barium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B77 , MF2B86 , PBW37   |
|        | Beryllium MF2B74S , PBW37  |
|        | Antimony MF2B74S , PBW37   |
|        | Thallium MF2B74S , PBW37   |
|        | Cadmium MF2B74S  |
|        | Silver MF2B74S   |
|        | Lead MF2B74S , PBW37   |
| Blanks | ICP_MS   |
| ND05   | The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional  |

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Blanks

| Blanks | ICP_MS   |
|--------|--|
|        | judgment to qualified detected and nondetected analytes.   |
|        | LCS37, MF2B74S, MF2B74A  |
|        | Vanadium LCS37 , MF2B74S   |
|        | Arsenic LCS37 , MF2B74A  |
|        | Chromium LCS37   |
|        | Cobalt LCS37 , MF2B74S   |
|        | Barium LCS37 , MF2B74A , MF2B74S   |
|        | Beryllium LCS37  |
|        | Antimony LCS37   |
|        | Thallium LCS37   |
|        | Cadmium LCS37  |
|        | Lead LCS37   |
| Blanks | ICP_MS   |
| ND06   | The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.   |
|        | LCS37, MF2B71, MF2B74S, MF2B65, MF2B68, MF2B74, MF2B74A, MF2B74D, MF2B77, MF2B86   |
|        | Vanadium LCS37 , MF2B71 , MF2B74S  |
|        | Chromium LCS37 , MF2B74S   |
|        | Cobalt LCS37 , MF2B74S   |
|        | Barium LCS37 , MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74A , MF2B74D , MF2B74S , MF2B77 , MF2B86   |
|        | Beryllium LCS37 , MF2B74S  |
|        | Antimony LCS37 , MF2B74S   |
|        | Thallium LCS37 , MF2B74S   |
|        | Cadmium LCS37 , MF2B74S  |
|        | Silver LCS37 , MF2B74S   |
|        | Lead LCS37 , MF2B74S   |
| Blanks | ICP_MS   |
| NE04   | The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs. |

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Blanks

| Blanks | ICP_MS   |
|--------|--|
|        | MF2B74S, MF2B65, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B77, MF2B86   |
|        | Chromium MF2B74S   |
|        | Barium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B77 , MF2B86   |
|        | Beryllium MF2B74S  |
|        | Antimony MF2B74S   |
|        | Thallium MF2B74S   |
|        | Lead MF2B74S   |
| Blanks | ICP_MS   |
| NE05   | The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
|        | LCS37, MF2B74S, MF2B74A  |
|        | Vanadium LCS37 , MF2B74S   |
|        | Chromium LCS37   |
|        | Cobalt LCS37 , MF2B74S   |
|        | Barium LCS37 , MF2B74A , MF2B74S   |
|        | Beryllium LCS37  |
|        | Antimony LCS37   |
|        | Thallium LCS37   |
|        | Lead LCS37   |

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### *Data Review Reports*

Detection Limit

| Detection Limit | ICP_AES  |
|-----------------|--|
| NDL1            | The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. |
|                 | PBW38, MF2B77, MF2B65, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74L, MF2B86  |
|                 | Sodium PBW38   |
|                 | Calcium PBW38  |
|                 | Aluminum MF2B77  |
|                 | Potassium PBW38  |
|                 | Manganese MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74L , MF2B77 , MF2B86  |

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### Data Review Reports

Detection Limit

| Detection Limit | ICP_MS   |
|-----------------|--|
| NDL1            | The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. |
|                 | MF2B71, PBW37, MF2B68, MF2B74D, MF2B74S, MF2B65, MF2B74, MF2B77, MF2B86  |
|                 | Vanadium MF2B71 , PBW37  |
|                 | Arsenic MF2B68 , MF2B74D , MF2B74S   |
|                 | Chromium MF2B74S , PBW37   |
|                 | Copper MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B77 , MF2B86   |
|                 | Lead MF2B74S , PBW37   |
|                 | Selenium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B74S , MF2B77 , MF2B86   |
|                 | Cobalt PBW37   |
|                 | Barium MF2B65 , MF2B68 , MF2B71 , MF2B74 , MF2B74D , MF2B77 , MF2B86 , PBW37   |
|                 | Beryllium MF2B74S , PBW37  |
|                 | Antimony MF2B74S , PBW37   |
|                 | Cadmium MF2B74S  |
|                 | Thallium MF2B74S , PBW37   |
|                 | Silver MF2B74S   |

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### *Data Review Reports*

Holding Times/Preservation

| Holding<br>Times/Preservation | Hg  |
|-------------------------------|---|
| NHT01                         | The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes. |
|                               | MF2B65, MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74S, MF2B77, MF2B86  |



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### *Data Review Reports*

Holding Times/Preservation

| Holding<br>Times/Preservation | ICP_AES   |
|-------------------------------|---|
| NHT01                         | The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes. |
|                               | MF2B68, MF2B71, MF2B74, MF2B74D, MF2B74L, MF2B74S, MF2B77, MF2B86, MF2B65   |

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Holding Times/Preservation

| Holding<br>Times/Preservation | ICP_MS  |
|-------------------------------|---|
| NHT01                         | The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes. |
|                               | MF2B65, MF2B68, MF2B71, MF2B74, MF2B74A, MF2B74D, MF2B74L, MF2B74S, MF2B77, MF2B86  |

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### *Data Review Reports*

Matrix Spikes

| Matrix Spikes | Hg   |
|---------------|--|
| NG090         | The following Matrix Spike samples have percent recoveries in the range of 30-74%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ. |
|               | MF2B65, MF2B68, MF2B71, MF2B74, MF2B77, MF2B86   |
|               | Mercury MF2B74S  |

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### Data Review Reports

#### Matrix Spikes

| Matrix Spikes | ICP_MS  |
|---------------|---|
| NG11          | The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ. |
|               | MF2B65, MF2B68, MF2B71, MF2B74, MF2B77, MF2B86  |
|               | Barium MF2B74S  |
| Matrix Spikes | ICP_MS  |
| NG14          | The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified.       |
|               | MF2B65, MF2B68, MF2B71, MF2B74, MF2B77, MF2B86  |
|               | Arsenic MF2B74S   |

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### *Data Review Reports*

Serial Dilution

| Serial Dilution | ICP_AES  |
|-----------------|--|
| NL031           | The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ. |
|                 | MF2B65, MF2B68, MF2B71, MF2B74, MF2B77, MF2B86   |
|                 | Calcium MF2B74L  |
|                 | Potassium MF2B74L  |